WHAT IS CLAIMED IS:

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1. A tape surface strain inspecting apparatus which optically inspects a surface of a tape and surface strain of said tape, the apparatus comprising:

a light emitting device emitting a light on the surface of said tape and forming a linear image which slants at a predetermined angle for a tape width direction of said tape;

an image taking device taking said image formed on the surface of the tape;

an image inspecting means investigating an edge linearity of an image taken by said image taking device; and

a strain discriminating means discriminating largeness of surface strain of said tape based on an inspection result by said image inspecting means.

2. A tape surface strain inspecting apparatus which optically inspects a surface of a tape and surface strain of said tape, the apparatus comprising:

a light emitting device emitting a light on the surface of said tape and forming a linear image which slants at a predetermined angle for a tape width direction of said tape;

an image taking device taking said image formed on the surface of the tape;

an image inspecting means investigating an edge linearity of each image transferred on a screen image taken by said image taking device; and

a strain discriminating means discriminating largeness of surface strain of said tape based on an inspection result by said image inspecting means.

3. A tape surface strain inspecting apparatus according to claim 1, which, when taking said image formed on a surface of said tape, has tape tension giving constant tension in a longitudinal direction of said tape.

- 4. A tape surface strain inspecting apparatus according to claim 2, which, when taking said image formed on a surface of said tape, has tape tension giving constant tension in a longitudinal direction of said tape.
- 5. A tape surface strain inspecting apparatus according to claim 1, wherein an angle for a tape width direction of said tape is 45 degrees.

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- 6. A tape surface strain inspecting apparatus according to claim 3, wherein an angle for a tape width direction of said tape is 45 degrees.
- 7. A tape surface strain inspecting apparatus according to claim 2, wherein said images are five pieces.
- 8. A tape surface strain inspecting apparatus according to claim4, wherein said images are five pieces.
 - 9. A tape surface strain inspecting apparatus according to claim 1, wherein said tape is a magnetic tape.
 - 10. A tape surface strain inspecting apparatus according to claim 2, wherein said tape is a magnetic tape.
 - 11. A tape surface strain inspecting apparatus according to claim 3, wherein said tape is a magnetic tape.
 - 12. A tape surface strain inspecting apparatus according to claim 4, wherein said tape is a magnetic tape.
- 20 13. A tape surface strain inspecting apparatus according to claim 5, wherein said tape is a magnetic tape.
 - 14. A tape surface strain inspecting apparatus according to claim 7, wherein said tape is a magnetic tape.
 - 15. A tape surface strain inspecting apparatus according to claim 1, wherein said tape is an optical recording tape.
 - 16. A tape surface strain inspecting apparatus according to claim 2,

wherein said tape is an optical recording tape.

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- 17. A tape surface strain inspecting apparatus according to claim 3, wherein said tape is an optical recording tape.
- 18. A tape surface strain inspecting apparatus according to claim 4, wherein said tape is an optical recording tape.
- 19. A tape surface strain inspecting apparatus according to claim 5, wherein said tape is an optical recording tape.
- 20. A tape surface strain inspecting apparatus according to claim 7, wherein said tape is an optical recording tape.